PONY

سلسلة كتب الاستاذ

2024

ICT

Information and Communication Technology

FIRST TERM REVISION

6th Primary

First Term

Lesson 2

- **Networks:** They are groups of devices or things that are connected to each other for a common purpose.
- **Types of networks:**
  1. Wired networks: They use cables that are plugged into ports.
  2. Wireless networks: They connect devices without wiring using Wi-Fi.
- **Network devices:**
  1. **MODEM:**
     a. Connects a local area network (LAN) to the internet.
     b. Converts (transforms) the signal from the ISP into a digital signal.
     c. Connects users to the internet
  2. **SWITCHES:**
     - They send data to a specific device over a network, so it makes connections easier and faster.
     - Switches are intelligent devices.

- **Artificial Intelligence (AI):**
  - A comprehensive term for computer applications that perform complex tasks that simulate the thinking and performance of the human element.
  - AI also works to imitate sounds when provided with the tone of voice of an actual human being.
- **Examples:**
  - Writing an article on a topic.
  - Inquiring about historical events and their sequence.

Lesson 3

- **Virtual reality:** It is a virtual 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.
- To experience VR, users wear a VR headset that blocks out the real world and immerse the user in another world.
- **Examples on VR:**
  1. It can take you to a museum thousands of miles away or to a historical site.
  2. In classrooms, VR allows close study of enlarged insects and atoms.
- **Augmented reality (AR):** It combines the real world with a virtual world by adding images using computers.
  - It shows a 3-D model of what the real world looks like.
  - AR helps students become active participants in learning and makes learning more memorable.
- **Examples on AR:**
  1. In math class, students can project 3-D images like cubes or cylinders onto a flat surface using their smartphones
  2. Visually impaired people can use AR to see their family members up close.
- **Artificial intelligence (AI):** It is the ability of a computer, to think, learn, and deduce.
  - Computer learns by analyzing the available examples.
- **Example on AI:**
  - It predicts the word you will write from words you have written previously.
  - AI is used to unlock your phone with facial recognition.
  - Disabled individuals can use virtual assistants powered by AI to accomplish everyday tasks, such as making phone calls and navigating their computer.

Lesson 4

- **Cutting-edge technology:** Is the latest and most advanced version of a service or product.
  - AI, AR, and VR are Cutting-edge technologies.
- **Assistive technology** helps people of determination.
- **Examples of Assistive technology:**
  1. Screen magnification software.
  2. Hearing aids
  3. Programs that turns speech-to-text and text-to-speech.
- **Smartgloves:** They empower deaf people to translate their signs in real time to spoken or text output.
- **User experiences:** It is how to use the product, interact with it, and evaluate their experiences.
  - It can be positive or negative.
- **User experience** is interlinked with the development of products and services.
- The goal of cutting-edge assistive technology is to improve someone's independence and to be included in society.

Lesson 5

- Copy, paste, and cut are some of the most commonly used word processing commands
- **Search engines** help people search Internet websites based on the keywords and phrases.
- They are user-friendly, very fast, and often give many results.
- **Databases**: They are collections of information which are typically stored in a computer system and can be accessed for free through a school.
- **A database** is a good place to search for information from journals, newspapers, and reference books.
- **EKB** is an example of a general database, the results will be credible and accurate.
- **Library catalog**: It is a database which includes all the items owned by a library. **such as**, the catalog of the Library of Alexandria.
- When you search any database:
  1. Use a keyword search.
  2. Review the results.
  3. You can limit a search by using fields like author, journal title and dates.

Lesson 7

- **Operating system (OS)**: It is the software that manages a computer's functions, such as memory, drives, printers, and other devices.
- OS manages accessible devices, such as screen readers and magnifiers.
- OS runs a computer's software and hardware.
- OS acts as a translator; it translates user communication to computer languages.
- Most computers come pre-loaded with an operating system.

Computer operating systems:

Microsoft Windows	MacOS
• On most computers worldwide.	• It runs on Apple computers.

Mobile operating systems:

Android	Apple iOS
• Used on open-source software.	• Used on the iPhone and iPad. • Closed-source operating system.

- **Open-source software:** means a person can change and read the programming code.
- **Closed-source software:** it can't be seen or changed by the public.
- Both Android and iOS perform the same basic functions, such as messaging, web access, video chat and touch function
- **Cutting-edge operating systems:**
  1. **The Robot Operating System (ROS)**: is an open-source software for building robot applications.
  2. Operating systems powering self-driving cars
- **Programming languages:** Instructions to a computer are given in codes.
- Programming languages have evolved from simple machine language (binary) to high-level human-like languages.
- Programming languages are usually open-source.
- HTML is used to create website.
- HTML is easy to learn, to make change and compatible with all the major web browsers.

Lesson 8

- Hyper Text Markup Language (HTML) is the standard programming language used to create web pages (websites).
- HTML consists of a series of elements, such as headings, paragraphs, links, and images.
- Web browsers read HTML documents and display the content according to the HTML tag.
- HTML tags have three main parts:

An opening tag <>

The content

A closing tag </>

- Some examples for HTML tags:

Element	HTML Tag
Largest Heading	Largest heading
Subheading	Subheading
Smallest Heading	Smaller Subheading
Paragraph	This is a paragraph
Font Size	<font size="1">
Font Color	<font color="red">
Hyperlink	 Visit EKB

Italics	Italics text
Bold	Bold text
Image	<img src="car.jpg" alt="self-driving car">

- HTML elements break up web pages to make them easier to scan and read.
- HTML code helps people with low vision to distinguish between parts of a web page.
- Images and large headings at the top of the page catches the attention.
- Subheadings make the text easy to scan and read.
- Text broken up into paragraphs makes it easy for the reader to scan the information they want.
- To make the images accessible, add image and alt-text tags.

Coding

Lesson 2

» Electronic Games Advantages:

1. Promoting Critical Thinking
2. Promoting Creative Thinking
3. Encouraging Teamwork

» Electronic Games Dangers:

1. Physical Dangers
2. Psychological Dangers
3. Security Dangers

1 Physical Dangers

» Electronic games affect your sleep cycle.

» It can cause:

- Eye strain
- Headaches
- Back problems
- Gaining weight

2 Psychological Dangers

» You may become anxious and depressed because:

1. You feel lonely in the real world.
2. You are being bullied online

» It makes some people aggressive, as some games promote violence.

» It can prevent some players from thinking rationally.

» It can negatively affect your relationship with your family and friends.

3 Security Dangers

- Large gaming communities are filled with cyberbullies.
- Hackers can cause your information to be leaked and viruses are easily spread.
- Multiplayer games, in particular, can put your security at risk.

Responsible Gaming

- To limit the dangers of electronic games:
  1. Only play games and chat with people you know and trust.
  2. Respect the limits that your parents set to prevent unhealthy gaming habits.
  3. Don't use personal information in your usernames and passwords.
  4. Don't use a webcam.
  5. Make sure that gaming does not replace real-life activities.
  6. When you face dangers, tell your parents.

Lesson 3

- It is irresponsible to leave your devices at risk by not taking proper safety precautions.
- There are many ways to protect your devices, such as:

1 Passwords

- Strong passwords are at least 8 characters and consist of:
  1. Letters
  2. Numbers
  3. Symbols (as @,#,%)

2 Multi-factor Authentication (MFA)

- It requires at least two ways of identifying yourself.

3 Fingerprint Authentication

- It will scan your finger, usually the thumb to confirm it's you.

4 Facial Recognition

- It will scan your face using your device's camera to confirm it's you.

5 Full Disk Encryption

- It scrambles your information and is accessible only with a password on your device.

Data Protection Law

- In 2020, Egypt formed the Data Protection Law to protect its citizens.
- Companies must report immediately if they've been victims of data theft, and let their customers know immediately as well.
- Companies and individuals should report data theft immediately.
- If you think your data has been compromised, tell your parents or a trusted adult.
- Tell your family and friends not to open attachments or click on links from your online accounts.

Lesson 4

Tips for online safety:

1. Use safe web browsers.
2. Use anti-virus.
3. Keep your pages private.
4. Do not communicate with people you don't know.
5. Do not share your personal information online.
6. Use strong passwords and change them every three months.
7. Verify that the websites that you frequent are real, safe, and age-appropriate.
8. Verify the information you find to make sure it is accurate.

Types of Cyber Security Threats

1 Malware

- Malware is the greatest cyber security threat.
- Scareware is a type of malware that pretends to be a virus alert.
- Scareware tells you to click on the link to help remove it, but the link is a virus.
- Using unsecured Wi-Fi can expose you to malware threats.

2 Spoofing

- Cyber criminals pretend to be a business or a known person.
- If you click on unsafe links:
  1. Viruses will be installed on your devices.
  2. Your money will be stolen.
  3. Your information will be compromised.

How to Deal with Cyber Security Threats

- Stay calm, but take swift action:
  1. Inform your contacts.
  2. Report the threat.
  3. Use anti-virus.
  4. Update your security settings.
  5. Change all your passwords.
  6. Create a personal online safety plan.

Lesson 5

- Copyright: It includes written, visual, audio, video, and web materials.
- Intellectual property rights: It means the invention, creation, or idea of someone that is protected by law from being copied.
- Creative Commons: It refers to works that the createor has allowed to be shared.
- Works in data libraries, such as (EKB) is approved for use.
- In Egypt, works enter the public domain 50 years after the creator's death.
- A stock exchange: It is a market where buyers and sellers deal in units of company stocks.
- Company stocks are called shares.
- Smart investors study multiple companies before deciding which one to invest in.

- A broker: He/She is a person who handles the buying and selling of shares.
- In traditional settings, an investor has a broker.
- E-trading has made buying and selling shares more efficient, giving investors more control.
- With the internet, e-trading platforms became common places.

SUMMARY on Theme 2

- E-trading allows investors to make trades independently through websites or apps, providing more independence and user-friendly options.
- Robo-advisors: They are online applications that provide financial guidance and services.

- E-trading provides access to many who might not be able to invest.
- E-trading facilitates easier and faster trading between companies globally.

Lesson 6

Cloud computing

- It is the on-demand storage and access of data and programs via remote servers on the internet.

Remote Servers

- Connect users who are not on the local area network (LAN) to access and manage data, files, and applications via the internet.

Examples of Cloud Computing :

1. **OneDrive:** it is an application of Microsoft 365.
2. **Google Drive:** it is an application of Google.

Advantages of cloud computing

1. It frees up your device's space.
2. It backs up your files.
3. It enables you to access your files from multiple devices through the internet.
4. It provides an extra layer of security through password-protected storage and data encryption.
5. It allows direct file sharing with authorized users.

Disadvantages of cloud computing

1. It requires internet to access the files on the cloud.
2. The cloud storage is fee-based, more storage means higher fees.
3. Data breaches can compromise your user information, but cloud services are overall extremely safe and secure.

Data Encryption	It converts data into a code to prevent unauthorized user access.
Data Breach	It occurs when unauthorized parties gain access to confidential data and information.

- A document management system organizes documents for quick access.
- Create a separate folder for each type of data.
- All the large and reputable cloud storage services offer MFA.

Lesson 7

- Microsoft 365 and Google Workspace are the most popular cloud computing software programs.
- Both platforms include productivity apps and storage.
- Microsoft 365 includes productivity apps, such as:
  - Teams
  - Word
  - Excel
  - PowerPoint

  1. Outlook is the email platform for Microsoft 365.
  2. OneDrive is the storage application for Microsoft 365.
- OneDrive is a user-friendly platform that allows you to store, share, and access files from any device.

SUMMARY on Theme 2

- OneDrive allows users to upload and share files.
- You can determine the access level for each person you share with.

To Upload Files or Folders to OneDrive

1. Sign in to Microsoft Office and select OneDrive.
2. Choose 'Upload' then 'Files' or 'Folder'.
3. Select the files or folders to upload.
4. Click 'Open' or 'Select Folder'.

To save a file to OneDrive

1. Select 'File' >> 'Save a Copy' > 'OneDrive - Personal/Company'.
2. Select 'Enter file name here' and type a name.
3. Select 'Save'.
4. The file will appear in your OneDrive when you open the Office app.

Final Exams

Model Exam 1

1 Choose the correct answer:

1. On stock exchanges, stocks are called ..... .
   a. money b. shares c. e-commerce
2. ..... is the on-demand storing and accessing of data and programs via remote servers on the internet.
   a. Data encryption b. Data breach c. Cloud computing
3. Augmented reality shows a ..... model of what looks like the real world.
   a. 2-D b. 3-D c. invisible
4. All of the following are operating systems, except ..... .
   a. Android b. windows c. the CPU
5. The ..... tag is used to create the largest heading in HTML.
   a. <h1> b. <h6> c. <L1>

2 Put (✓) or (✗):

1. Good digital citizens post others' ideas as their own. ( )
2. Programs that convert speech to text and vice versa are a type of assistive technology. ( )
3. Gmail is the email platform for Microsoft 365. ( )
4. User experience describes how people use and evaluate a product. ( )
5. It is not necessary to report the threats to trusted people. ( )

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 Data encryption	a. connects the computer to the internet.
2 Screen readers	b. a network device that pass data to a specific device.
3 A switch	c. converts data into code to prevent unauthorized user access.
4 Spoofing	d. cyber criminals pretend to be a business or a known person to trick you.
5 A router	e. help blind people by converting text to audio.

1 ..... 2 ..... 3 ..... 4 ..... 5 .....

Model Exam 2

1 Choose the correct answer:

1. Passwords that contain at least 8 characters are ..... .
   a. useless b. less secure c. more secure
2. ..... connect(s) users who are not on the LAN to access and manage data, files, and applications via the internet.
   a. Remote servers b. Switch c. Hub
3. If the product is practical and meets customer needs, the user experience will be .....
   a. positive b. negative c. neutral
4. You can use the shortcut ..... to copy text or image in windows.
   a. "Ctrl + c" b. "Cmd + c" c. "Ctrl + x"
5. ..... refers to works that have been granted permission to be shared by the creator.
   a. Creative Commons b. Public domain c. Copyright

2 Put (✓) or (✗):

1. Spoofing is the greatest cyber security threat. ( )
2. Microsoft Word is used to create presentations. ( )
3. The Disabled individuals can use virtual assistants powered by AI in their daily tasks. ( )
4. Anyone can read and modify the code in closed-source software. ( )
5. Electronic games can be fun, but they impact health. ( )

3 Complete the following using the words between the brackets:

(Microsoft 365 - User experience - Smartgloves - being depressed - sleep cycle)

1. ..... empower deaf people to translate their signs in real time to spoken or text output.
2. Playing electronic games too much can affect your ..... .
3. ..... is an example of cloud computing.
4. One of the psychological dangers of electronic games is ..... .
5. ..... is how to use the product and interact with it.

Model Exam 3

1 Choose the correct answer:

1. If you've been hacked on your Instagram account, it is better to change ..... .
   a. Instagram password b. all accounts passwords
   c. none of them
2. ..... is an open-source software for building robot applications.
   a. iOS b. ROS c. Android
3. ..... confirms your identity by scanning your thumb.
   a. Fingerprint authentication b. Facial recognition c. A password
4. ..... occurs when unauthorized parties gain access to confidential data and information
   a. Data breach b. Data theft c. Data encryption
5. A fake domain pretending to be a business is an example of ..... .
   a. malware b. spoofing c. virus

2 Put (✓) or (✗):

1. HTML tags have three main parts ( )
2. The EKB is an example of a general search engine. ( )
3. Computers can learn by analyzing the provided examples. ( )
4. OneDrive is complicated and difficult to use. ( )
5. Copyright only covers written material. ( )

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 Cloud storage	a. covers only one subject, such as business or law.
2 Creative Commons	b. protects printed and digital content.
3 Subject database	c. a person who handles the buying and selling of shares.
4 A broker	d. means creators give permission to share their works.
5 Copyright law	e. is often a fee-based service.

1 ..... 2 ..... 3 ..... 4 ..... 5 .....

Model Exam 4

1 Choose the correct answer:

1. ..... runs a computer's software and hardware.
   a. Operating system b. The CPU c. Hardware
2. ..... converts data into code to prevent unauthorized user access.
   a. Data breach b. Data theft c. Data encryption
3. ..... combines the real world with a virtual world by adding images using computers.
   a. Augmented reality b. Artificial intelligence c. Virtual reality
4. A poem written in 1900 is ..... .
   a. copyrighted b. not copyrighted c. both a and b
5. Wired networks connect devices using ..... .
   a. Wi-Fi b. radio waves c. cables

2 Put (✓) or (✗):

1. It is important to balance between online and offline activities. ( )
2. Despite a small risk, cloud services are overall extremely safe and secure. ( )
3. If you are a victim of data theft, there is no need to report the theft. ( )
4. The Egyptian stock exchange allows citizens to invest in any market sector. ( )
5. Scareware tells you to click on the link to remove it, but the link is a virus. ( )

3 Complete the following using the words between the brackets:

(Robo-advisors – <h1> – Data breach – Scareware – eye strain)

1. ..... occurs when unauthorized parties gain access to confidential data.
2. ..... is used to create largest heading in HTML .
3. ..... is a type of malware that pretends to be a virus alert.
4. ..... are online applications that provide financial guidance and services.
5. Playing online games too often can cause ..... .

Model Exam 5

1 Choose the correct answer:

1. ..... is a virtual 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.
   a. Virtual reality b. Artificial intelligence
   c. Augmented Reality
2. ..... scans your face using the device's camera to confirm your identity.
   a. Fingerprint authentication b. Facial recognition c. Full disk
3. ..... is an open-source operating system for mobile devices.
   a. Android b. iOS c. macOS
4. ..... is the Microsoft 365 storage application.
   a. Google Drive b. OneDrive c. Outlook
5. If you are exposed to cyber security threat, you should ..... it.
   a. ignore b. accept c. report
6. To make the text bold in HTML, you can use the ..... tag.
   a. <i> b. <s> c.
7. ..... is a market where buyers and sellers deal in units of company stocks.
   a. Online shopping b. Stock exchange c. Supermarket

2 Put (✓) or (✗):

1. Cloud storage services are always free. ( )
2. Routers work as gateways that connect your device to ISP. ( )
3. It is responsible to leave your devices at risk without protection. ( )
4. Electronic games can make some people anxious and depressed. ( )
5. Copyright includes only books, music, and videos. ( )
6. In HTML, the <i> tag is used to display text in italics. ( )
7. Linux is the most popular operating system all over the world. ( )
8. Switches are used to connect computers to the ISP. ( )

Model Exam 6

1 Choose the correct answer:

1 ..... is the greatest cyber security threat.
a. Malware b. Anti-virus c. Firewall

2 Sharing your friend's photos without their permission is ..... behavior.
a. responsible b. irresponsible c. safe

3 To upload a file or folder on OneDrive, you should first ..... Microsoft office.
a. download b. sign in c. share

4 The following HTML tags are correct, except .....
a. <a> ..... b. ..... c. .....

5 ..... a virtual 3D environment for users to explore and interact as if it were reality.
a. Virtual reality b. Artificial intelligence c. Assistive technology

2 Put (✓) or (✗):

1 Egypt established the Data Protection Law to protect its citizens. ( )
2 The ability of the computer to think and learn is called AR. ( )
3 Examples of cloud computing include Google Drive, OneDrive, and Google Chrome. ( )
4 E-trading allows more independence for investors. ( )
5 There is no difference between augmented reality and virtual reality. ( )

3 Complete the following using the words between the brackets:

(MFA - Stock exchange - aggressive – Remote servers – Wired networks)

1 ..... connect devices using physical cables.
2 Some electronic games promote violence and can make some people .....
3 ..... requires at least two ways of identifying yourself.
4 ..... connect users who are not on LAN to access and manage data, files, and applications via the internet.
5 ..... is a market where buyers and sellers deal in units of company stocks.

Model Exam 7

Choose the correct answer:

1 ..... are group of people or things that are connected to each other.
a. Servers b. Networks c. Hubs

2 ..... is computer apps that perform complex tasks that simulate the thinking and performance of the human element.
a. Artificial intelligence b. Augmented reality c. Remote sensors

3 The latest version of service or product is called ..... technology.
a. assistive b. cutting-edge c. virtual

4 ..... is a closed-source operating system for mobile devices.
a. Android b. Apple iOS c. Windows

5 VR headset blocks out the ..... world(s) and provides views that immerse the user in another world.
a. real b. virtual c. both of them

6 ..... is a cloud storage provided by Microsoft for accessing files anywhere.
a. Collections b. Favorites bar c. OneDrive

7 The email platform of Microsoft 365 is ..... .
a. Gmail b. Outlook c. Yahoo

8 ..... empower deaf people to translate their signs to spoken or text output.
a. Hearing aids b. Screen reader c. Smartgloves

9 Large gaming communities are filled with ..... .
a. cyberbullies b. doctors c. both a and b

10 To create the smallest heading in HTML, use the ..... tag.
a. <h1> b. <h6> c. <S1>

11 ..... software means that it can't be seen or changed by the public.
a. Open-source b. Closed-source c. Both of them

12 Egypt considers works in the public domain after ..... of the creator's death.
a. 5 years b. 50 months c. 50 years.

13 EKB is an example of ..... database.
a. subject b. general c. Electronic

14 Complicated and hard-to-use products result in ..... user experiences.
a. positive b. negative c. neutral

15 Visually impaired people can use ..... to see their family members up close.
a. augmented Reality b. artificial intelligence c. hearing aids

Model Exam 8

1 Choose the correct answer:

1. Word prediction on smartphones is an example of ..... .
   a. artificial intelligence b. augmented reality c. virtual reality
2. ..... is a Microsoft application that can help you share works with your friends.
   a. Word b. PowerPoint c. OneDrive
3. To use images, videos, or infographics of someone, you should ..... .
   a. ignore the owner b. share them without permission
   c. ask for permission
4. ..... is a device that connects a local area network (LAN) to the internet.
   a. Artificial intelligence b. A modem c. A server
5. E-trading has made the process of buying and selling shares more ..... .
   a. difficult b. expensive c. efficient

2 Put (✓) or (✗):

1. You should use weak passwords to protect your data ( )
2. E-trading platforms are now common places. ( )
3. HTML elements break up web pages so, it is difficult to read. ( )
4. Virtual reality is a virtual 2-D environment that allows users to explore and interact with the surroundings. ( )
5. macOS runs on on most computers worldwide. ( )

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 MFA	a. it is used to make text bold in HTML.
2	b. stands for Hyper Text Markup Language.
3 VR headset	c. requires at least two ways of identifying yourself.
4 HTML	d. is an operating system for Apple computers.
5 macOS	e. is used to experience virtual reality.

1 ..... 2 ..... 3 ..... 4 ..... 5 .....

Model Exam 9

1 Choose the correct answer:

1 ..... runs a computer software and hardware.
a. Windows explorer b. Operating system c. CPU

2 ..... converts the digital text into audio to help blind people.
a. Brille terminal b. Screen reader c. Screen magnifier

3 To make the images accessible on web pages, add ..... to <img> in HTML.
a. alt-text b. meta c. title

4 ..... scrambles your data and requires a password to access it.
a. Full disk encryption b. Facial recognition c. Both a and b

5 ..... can imitate sounds when provided with the tone of voice of an actual human being.
a. Augmented reality b. Artificial intelligence c. Switches

2 Put (✓) or (✗):

1 You should play a lot of electronic games to fall asleep right away. ( )
2 OneDrive is a Google Workspace storage application. ( )
3 The internet helps electronic trading platforms to be common places. ( )
4 You can access files stored in the cloud even without an internet connection. ( )
5 Strong passwords contain letters, numbers, and special characters. ( )

3 Complete the following using the words between the brackets:

(ROS – Facial recognition – E-trading – MFA – Programming languages)

1 ..... made the process of buying and selling shares more efficient.
2 ..... is an open source operating system that is used for building robot applications.
3 ..... are instructions to a computer are given in code.
4 ..... scans your face using your device's camera to confirm your identity.
5 ..... stands for Multi-factor Authentication.

Model Exam 10

1 Choose the correct answer:

1 ..... are collections of information stored in a computer system.
a. Search results b. Databases c. Software

2 ..... can take you to a museum thousands of miles away.
a. AR b. VR c. AI

3 The HTML tag that is used to create a paragraph is ..... .
a. <h> b. <a> c. <p>

4 ..... networks connect devices using Wi-Fi.
a. Wired b. Wireless c. Both of them

5 ..... are operating systems run on cell phones.
a. Windows b. Android c. Apple iOS

2 Put (✓) or (✗):

1 Creative commons means the creator has been deceased for at least 50 years. ( )

2 Copy, paste, and cut are used for processing videos. ( )

3 Virtual reality allows you to explore world museums from home. ( )

4 Artificial intelligence (AI), augmented reality (AR), and virtual reality (VR) are examples of cutting-edge technology. ( )

5 General databases provide information on a specific topic. ( )

3 Complete the following using the words between the brackets:

(Smartgloves - Wireless network - Assistive technology - <a> - modem)

1 ..... helps people of determination in their daily works

2 ..... is a tag that is used to create a hyperlink in HTML.

3 ..... connect devices without wiring by using Wi-Fi.

4 ..... translate sign language to spoken or text output.

5 A ..... converts the signal from ISP into a digital signal.

Final Exams

Model Exam 1

1. 1 b 2 c 3 b 4 c 5 a
2. 1 ✗ 2 ✓ 3 ✗ 4 ✓ 5 ✗
3. 1 c 2 e 3 b 4 d 5 a

Model Exam 2

1. 1 c 2 a 3 a 4 a 5 a
2. 1 ✗ 2 ✗ 3 ✓ 4 ✗ 5 ✓
3. 1 Smartgloves
   2 sleep cycle
   3 Microsoft 365
   4 being depressed
   5 User experience

Model Exam 3

1. 1 b 2 b 3 a 4 a 5 b
2. 1 ✓ 2 ✗ 3 ✓ 4 ✗ 5 ✗
3. 1 e 2 d 3 a 4 c 5 b

Model Exam 4

1. 1 a 2 c 3 c 4 b 5 c
2. 1 ✓ 2 ✓ 3 ✗ 4 ✓ 5 ✓
3. 1 Data breach
   2 <h1>
   3 Scareware
   4 Robo-advisors 5 eye strain

Model Exam 5

1. 1 a 2 b 3 a 4 b 5 c 6 c 7 b
2. 1 ✗ 2 ✓ 3 ✗ 4 ✓ 5 ✗ 6 ✓ 7 ✗ 8 ✗

Model Exam 6

1. 1 a 2 b 3 b 4 c 5 a
2. 1 ✓ 2 ✗ 3 ✗ 4 ✓ 5 ✗
3. 1 Wired networks 2 aggressive
   3 MFA
   4 Remote servers
   5 Stock exchange

Model Exam 7

1. 1 b 2 a 3 b 4 b 5 a 6 c 7 b 8 c 9 a 10 b 11 b 12 c 13 b 14 b 15 a

Model Exam 8

1. 1 a 2 c 3 c 4 b 5 c
2. 1 ✗ 2 ✓ 3 ✗ 4 ✗ 5 ✗
3. 1 c 2 a 3 e 4 b 5 d

Model Exam 9

1. 1 b 2 b 3 a 4 a 5 b
2. 1 ✗ 2 ✗ 3 ✓ 4 ✗ 5 ✓
3. 1 E-trading 2 ROS
   3 Programming languages
   4 Facial recognition
   5 MFA

Model Exam 10

1. 1 b 2 b 3 c 4 b 5 b
2. 1 ✗ 2 ✗ 3 ✓ 4 ✓ 5 ✗
3. 1 Assistive technology
   2 <a> 3 Wireless networks
   4 Smartgloves 5 modem